

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Spud Date: 6-27-77

file
122 file
RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special Test Date 8-23-77

Company Morris R. Antweil Connection None

Pool Undesignated *manow* Formation Morrow Unit **O.C.C. ARTESIA, OFFICE**

Completion Date 7-15-77 Total Depth 8868 Plug Back TD 8765 Elevation 3581 GL Farm or Lease Name Rio Com

Csg. Size 5 1/2 Wt. 17# Set At 8868 Perforations: From 8685 To 8714 Well No. 1

Tbg. Size 2 3/8 Wt. 4.7# Set At 8633 Perforations: From open To ended Unit Sec. Twp. Rye. G 29 18S 25E

Type Well - Single - Bradenhead - G.C. or G.O. Multiple Packer Set At 8631 County Eddy State New Mexico

Producing Thru Tbg. L H Gg % CO₂ % N₂ % H₂S Prover Meter Run Taps

8633 8633 .626 6" Positive Chokes

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	6" Positive Ck.						2447	Shut-In			72 hrs.
1.			1/8	2412		72	2412				1 hr.
2.			3/16	2260		73	2260				1 hr.
3.			1/4	2025		73	2025				1 hr.
4.			5/16	1989		76	1989				1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcd
1	.2618		2425.2	.9887	1.264	1.158	919
2	.6101		2273.2	.9877	1.264	1.159	2007
3	1.112		2038.2	.9877	1.264	1.155	3268
4	1.771		2002.2	.9850	1.264	1.149	5073
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	3.61	532	1.46	.746			.626		671	365
2.	3.39	533	1.46	.745						
3.	3.04	533	1.46	.750						
4.	2.98	536	1.47	.758						
5.										

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n =$
1		2430.1	5905.4	147.2	3.713	1.994
2		2295.8	5270.7	781.9		
3		2103.0	4422.6	1630.0		
4		2157.0	4652.6	1400.0		
5						

Absolute Open Flow 6.516 Mcd @ 15.025 Angle of Slope 62.25 Slope, n 526

Remarks: Made small amount of fluid, no way to get a measurement.

Approved By Commission: Conducted By: Calculated By: Checked By: